

## Study Guide: Answer Key

### Chapter 7: DNA Structure and Replication

*Biologically Unique: How DNA helped free an innocent man*

#### Driving Question 1:

**What is the function of DNA, and how is DNA organized in cells?**

#### Why should you care?

DNA is the hereditary molecule—passed from parents to offspring—that serves as the instruction manual for “building” each individual. DNA is found in the nucleus of almost every cell in our body. Forensic scientists can, therefore, collect DNA evidence from many different types of crime scene evidence, such as semen, saliva, skin cells, blood, and hair. This DNA can then be used to positively identify a perpetrator or exonerate accused suspects of a crime.

Roy Brown was convicted by junk science, the only “evidence” linking him to the crime was his teeth, and bite mark analysis is notoriously unreliable. Other types of physical evidence, such as hair samples examined under a microscope, are also problematic because they are not distinct enough to positively identify the individual from which they come. DNA is valuable in forensics because it is unique to each individual. DNA’s structure is the key to its uniqueness in each individual.

#### What should you know?

To fully answer this Driving Question, you should be able to:

1. Describe the origin and function of DNA.
2. Describe the location of DNA in eukaryotic cells.
3. Describe the structure of chromosomes.
4. Describe the number and origin of the chromosomes in human cells.

#### Infographic Focus:

The infographics most pertinent to the Driving Question are 7.1 and 7.2.

#### Test Your Vocabulary:

Match these terms to their definitions:

[DEOXYRIBONUCLEIC ACID (DNA)] The molecule of heredity, common to all life forms, that is passed from parents to offspring.

[CHROMOSOME] A single, large DNA molecule wrapped around proteins.

Chromosomes are located in the nuclei of most eukaryotic cells.

[NUCLEOTIDES] The building blocks of DNA. Each nucleotide consists of a sugar, a phosphate, and a base. The sequence of nucleotides (As, Cs, Gs, Ts) along a DNA strand is unique to each person.

1. Describe the origin and function of DNA.

# Modern Biology Study Guide Answer Key Dna

**George Karleskint**



## **Modern Biology Study Guide Answer Key Dna:**

Study Guide to Accompany Principles of Genetics, 3rd Edition D. Peter Snustad, Harold James Price, Michael J. Simmons, 2002-09-09 High quality illustrations with stepped out art to help readers visualize complex processes Human genetics and the role of the geneticist highlighted throughout Two new features in each chapter introductory Key Questions and closing Basic Exercises

Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp Russell C. Hollingsworth, 1979

*Student Study Guide for Campbell's Biology Second Edition* Martha R. Taylor, 1990

*Study Guide for Starr and Taggart's Biology, the Unity and Diversity of Life* Jane B. Taylor, 1989

**Study Guide for Man, Nature, and Society** Theodore W. Pohrte, L. Jack Pierce, 1975

**Teacher's Guide to the Modern Biology Program** James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965

**Thinking Through the Test A Study Guide for the Florida College Basic Skills Exit Tests** Dorothy Jean Henry, Mimi Markus, 2004-08-02

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**El-Hi Textbooks and Serials in Print**, 2006

**A Beginner's Guide to Biotechnology** BioPharmaceutical Technology Center Institute, 2023-04-06 You are surrounded by biotechnology at home in your doctor s office at work What is it Why is it important How is it improving our lives What are the career opportunities in this rapidly growing field The authors provide an engaging and interesting introduction to the fascinating world that exists where biology and technology intersect

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**Encyclopedia of Genetics** Bryan D. Ness, 2004 An encyclopedia of genetics

*The Tangled Bank* Carl Zimmer, 2010 Carl Zimmer carlzimmer.com is one of the countrys leading science writers A regular contributor to the New York Times and magazines like Scientific American and Discover he is the author of six books including Evolution The Triumph of an Idea and Parasite Rex He has won numerous awards from institutions including the National Academy of Sciences the American Association for the Advancement of Science and the American Institute of Biological Sciences EO Wilson says The Tangled Bank is the best written and best illustrated introduction to evolution of the Darwin centennial decade and also the most conversant with ongoing research It is excellent for students the general public and even other biologists

**Modern Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-01-01

*Investigative Biology*, 1986

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